

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941072

Luminaire Tested: **GALN-SB4B-940-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-940-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16211 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

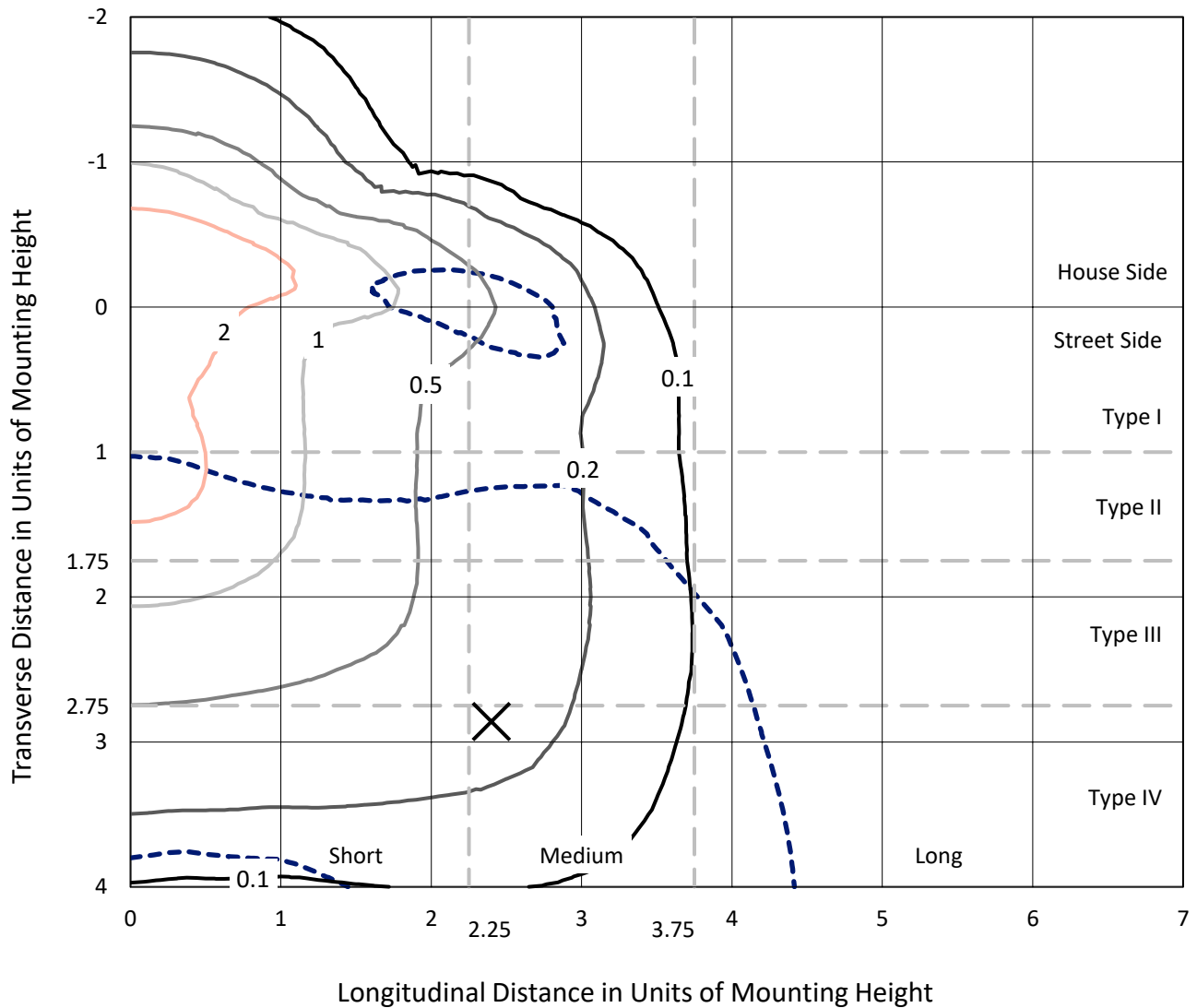
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

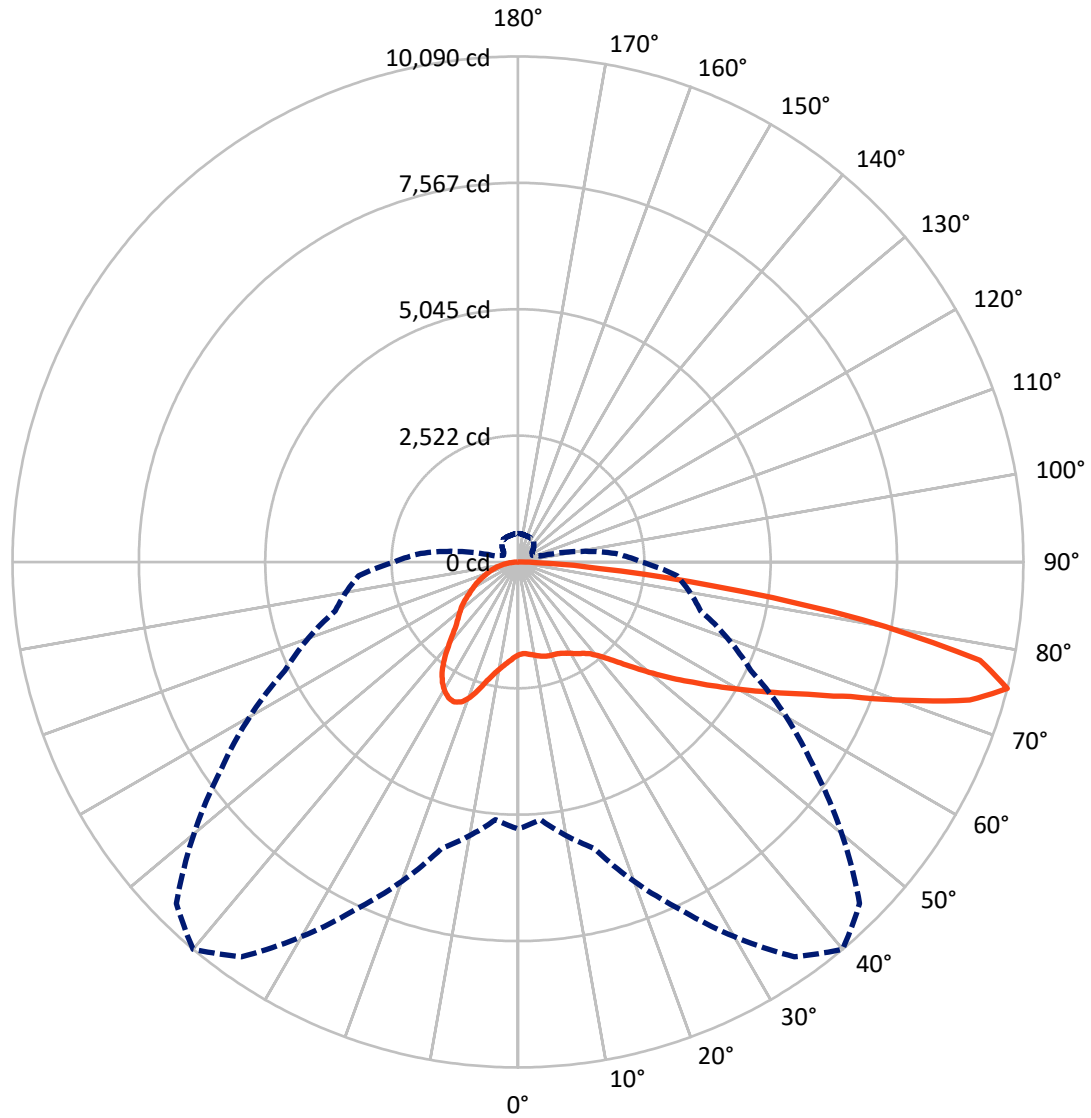
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5022.7	0.0	5022.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	11188.3	0.0	11188.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	16211.0	0.0	16211.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.0	1.1
10°-20°	621.3	3.8
20°-30°	1134.4	7.0
30°-40°	1608.9	9.9
40°-50°	2172.4	13.4
50°-60°	2922.5	18.0
60°-70°	3709.3	22.9
70°-80°	3366.5	20.8
80°-90°	490.7	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16211.0	100.0
0°-180°	16211.0	100.0



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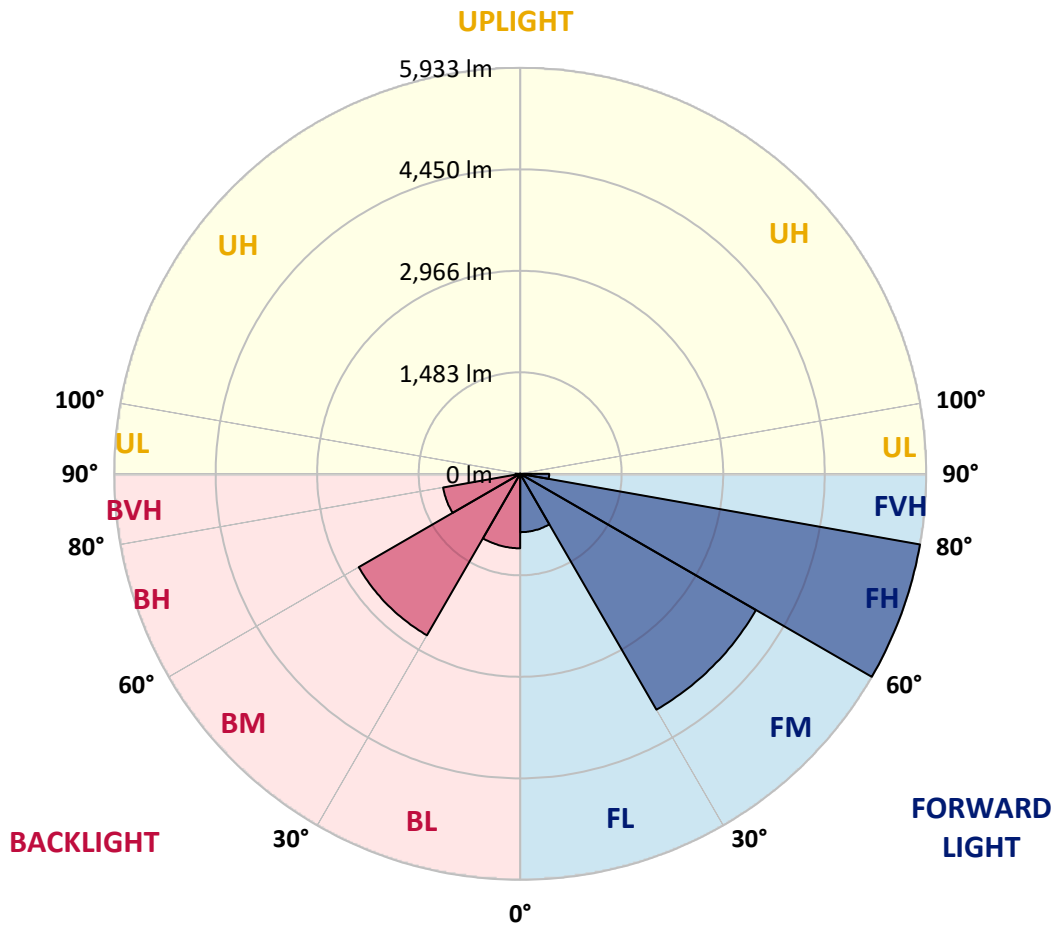
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.7	5.3			
FM (30°-60°)	3979.4	24.5			
FH (60°-80°)	5933.0	36.6			G3/7500
FVH (80°-90°)	423.2	2.6			G3/500
BL (0°-30°)	1088.0	6.7	B3/2500		
BM (30°-60°)	2724.4	16.8	B3/5000		
BH (60°-80°)	1142.8	7.0	B3/2500		G3/2500
BVH (80°-90°)	67.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7
2.5°	1825.4	1835.7	1833.1	1829.7	1829.7	1830.5	1829.7	1835.7	1841.7	1847.7
5°	1844.3	1854.6	1849.5	1845.2	1841.7	1840.9	1838.3	1837.4	1840.9	1848.6
7.5°	1881.3	1891.6	1883.8	1876.1	1869.2	1865.8	1862.3	1857.2	1854.6	1858.9
10°	1922.5	1932.9	1923.4	1909.6	1898.5	1894.2	1890.7	1885.6	1882.1	1884.7
12.5°	1963.8	1974.1	1961.2	1942.3	1927.7	1925.1	1920.8	1919.1	1918.2	1917.4
15°	2002.5	2011.1	1994.8	1972.4	1956.9	1952.6	1948.3	1950.9	1955.2	1960.4
17.5°	2032.6	2041.2	2017.1	1987.9	1973.3	1971.5	1969.0	1977.6	1989.6	2002.5
20°	2060.1	2068.7	2037.7	1998.2	1981.0	1981.0	1981.9	1999.9	2017.1	2036.0
22.5°	2098.8	2105.7	2067.8	2013.7	1988.7	1990.5	1997.3	2015.4	2036.9	2062.7
25°	2156.4	2161.6	2115.1	2042.9	2014.5	2019.7	2025.7	2034.3	2054.9	2085.0
27.5°	2249.3	2253.6	2192.5	2094.5	2051.5	2060.1	2068.7	2062.7	2072.1	2097.9
30°	2380.0	2382.5	2305.1	2175.3	2114.3	2118.6	2120.3	2095.4	2077.3	2097.9
32.5°	2534.7	2533.9	2441.9	2273.3	2185.6	2181.3	2166.7	2117.7	2075.6	2093.6
35°	2774.6	2765.1	2646.5	2410.9	2266.5	2239.8	2205.4	2142.6	2084.2	2089.3
37.5°	3171.8	3142.6	2978.4	2636.2	2386.8	2318.9	2268.2	2183.1	2103.1	2087.6
40°	3619.8	3582.8	3402.3	2944.8	2567.4	2458.2	2376.5	2240.7	2134.0	2095.4
42.5°	4151.2	4098.7	3904.4	3308.5	2796.1	2637.9	2514.9	2313.7	2179.6	2120.3
45°	4803.8	4734.1	4459.0	3718.7	3084.1	2873.5	2709.3	2424.7	2249.3	2168.4
47.5°	5463.2	5480.4	5089.2	4188.1	3429.8	3164.1	2952.6	2591.5	2350.7	2245.8
50°	6164.0	6176.0	5716.0	4708.3	3821.9	3492.5	3226.0	2778.0	2491.7	2355.9
52.5°	6710.8	6712.5	6285.2	5252.6	4230.3	3853.7	3520.9	2991.3	2655.1	2502.0
55°	7053.0	7048.7	6684.2	5767.6	4699.7	4232.8	3847.6	3233.7	2854.6	2674.0
57.5°	7301.5	7288.6	6959.3	6210.4	5200.1	4680.8	4217.4	3508.9	3090.2	2878.6
60°	7396.1	7388.3	7145.9	6593.0	5726.3	5176.1	4643.8	3816.7	3357.6	3120.2
62.5°	7432.2	7446.8	7329.0	6963.6	6289.5	5724.6	5112.4	4184.7	3658.5	3393.7
65°	7559.4	7586.1	7562.0	7448.5	6925.8	6366.9	5734.1	4622.3	3986.9	3686.9
67.5°	7811.4	7838.0	7848.3	8028.9	7703.0	7167.4	6509.6	5167.5	4371.3	3991.2
70°	7805.4	7797.6	7979.9	8490.6	8676.3	8275.7	7555.1	5838.1	4829.6	4244.0
72.5°	7104.6	7042.7	7473.5	8485.5	9486.3	9433.0	8832.0	6703.1	5225.1	4275.0
75°	5330.0	5164.9	5925.8	7647.1	9621.3	10089.9	9643.6	7239.6	5131.3	3777.1
77.5°	2279.4	2113.4	3010.2	5661.0	8611.0	9432.1	8899.0	6316.2	4096.1	2497.7
80°	596.7	595.8	909.7	2566.5	5856.2	6965.3	6110.7	4078.9	2340.4	892.5
82.5°	246.8	240.7	334.5	998.2	2861.4	3908.7	3189.9	1819.4	845.2	241.6
85°	92.0	91.1	162.5	344.8	1009.4	1612.1	1166.8	465.2	210.7	117.8
87.5°	25.8	24.9	35.3	119.5	245.9	373.2	199.5	76.5	59.3	46.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1853.7	0°	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7	1853.7
1857.2	2.5°	1859.8	1864.1	1871.8	1877.8	1885.6	1894.2	1906.2	1913.9	1921.7	1926.8
1861.5	5°	1867.5	1877.0	1896.7	1916.5	1939.7	1961.2	1986.2	2004.2	2018.8	2023.1
1877.0	7.5°	1884.7	1900.2	1933.7	1967.2	2004.2	2039.5	2075.6	2106.5	2131.5	2140.9
1904.5	10°	1914.8	1935.4	1982.7	2030.0	2079.0	2133.2	2179.6	2224.3	2259.6	2274.2
1937.2	12.5°	1952.6	1978.4	2040.3	2105.7	2173.6	2248.4	2308.6	2363.6	2407.5	2427.2
1982.7	15°	2001.6	2035.2	2114.3	2202.0	2301.7	2405.7	2482.3	2543.3	2592.3	2616.4
2030.0	17.5°	2054.9	2099.7	2199.4	2331.8	2474.5	2611.2	2700.7	2745.4	2796.1	2819.3
2073.9	20°	2106.5	2161.6	2304.3	2496.9	2686.9	2832.2	2904.4	2916.5	2919.9	2922.5
2115.1	22.5°	2159.8	2233.8	2435.8	2705.0	2908.7	3009.3	3019.7	2968.1	2895.8	2862.3
2155.5	25°	2218.3	2316.3	2607.8	2934.5	3099.6	3111.7	3032.5	2907.0	2770.3	2707.5
2188.2	27.5°	2275.1	2411.8	2814.2	3153.8	3237.2	3131.4	2961.2	2783.2	2618.1	2551.9
2211.4	30°	2331.8	2521.0	3042.0	3345.5	3299.9	3082.4	2848.5	2649.9	2484.0	2414.3
2232.1	32.5°	2389.4	2648.2	3304.2	3483.9	3288.8	2978.4	2708.4	2500.3	2354.2	2281.1
2250.1	35°	2454.8	2804.7	3552.7	3559.6	3214.0	2825.3	2523.5	2321.5	2194.2	2135.8
2271.6	37.5°	2539.9	3003.3	3772.0	3578.5	3083.3	2600.9	2294.0	2110.0	2005.1	1978.4
2303.4	40°	2645.6	3242.3	3939.6	3548.4	2889.8	2328.4	2042.9	1895.9	1836.6	1842.6
2346.4	42.5°	2783.2	3509.7	4057.4	3471.1	2620.7	2047.2	1822.8	1757.5	1785.8	1809.9
2410.9	45°	2962.0	3787.5	4130.5	3339.5	2316.3	1809.0	1693.0	1708.4	1729.9	1732.5
2514.9	47.5°	3190.8	4068.6	4178.7	3140.9	2005.9	1641.4	1610.4	1613.9	1609.6	1591.5
2670.6	50°	3476.2	4342.0	4221.7	2877.8	1742.0	1536.5	1495.2	1483.2	1423.8	1365.4
2877.8	52.5°	3801.2	4593.1	4239.7	2551.1	1536.5	1448.8	1381.7	1306.1	1195.1	1177.1
3138.3	55°	4162.3	4825.3	4193.3	2149.5	1363.7	1336.1	1234.7	1143.5	1131.5	1116.0
3481.4	57.5°	4594.0	5075.5	4098.7	1701.6	1186.5	1204.6	1105.7	1116.0	1094.5	1070.5
3922.5	60°	5066.0	5334.3	3932.8	1293.2	1003.4	1040.4	1072.2	1071.3	1065.3	1045.5
4387.6	62.5°	5490.7	5504.5	3606.0	990.5	842.6	913.1	1000.0	999.1	993.9	982.8
4873.4	65°	5743.5	5478.7	3060.9	779.8	710.2	808.2	901.9	908.8	909.7	908.8
5238.8	67.5°	5698.8	5176.9	2312.9	620.8	601.0	701.6	804.8	814.2	821.1	822.8
5285.2	70°	5193.2	4514.0	1508.1	495.3	503.8	607.9	712.8	722.2	728.3	735.1
4586.2	72.5°	4048.0	3318.9	863.2	400.7	418.7	527.1	621.6	632.8	636.3	649.2
3191.6	75°	2466.8	1951.8	466.0	315.6	343.9	450.5	531.4	544.3	550.3	565.8
1567.4	77.5°	1172.8	845.2	265.7	245.9	276.9	368.0	448.8	463.4	447.1	455.7
432.5	80°	396.4	313.8	167.7	187.4	211.5	287.2	359.4	374.0	339.6	337.9
143.6	82.5°	138.4	127.3	106.6	124.7	136.7	205.5	271.7	290.6	252.8	251.9
64.5	85°	54.2	51.6	59.3	67.9	81.7	126.4	178.8	188.3	155.6	125.5
18.9	87.5°	11.2	12.0	14.6	15.5	24.9	43.9	64.5	79.1	62.8	53.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
1853.7
1923.4
2024.9
2141.8
2275.1
2427.2
2614.7
2818.5
2929.4
2871.8
2717.0
2559.7
2422.1
2290.5
2148.7
1997.3
1863.2
1832.3
1749.7
1605.3
1373.1
1183.1
1118.6
1066.2
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